**3.1 External Interfaces**

**3.1.1 User Interfaces**

The SIS Request System will have two different users who will each have their own respective aspects of the system available to them. After logging in, the user interface of will be determined by the functional requirements of the given user. The Department Administrator user will have several views that allow them to: search for a current member of the University of Missouri System Active Directory, request access for an individual in the UMSystem, and view and edit active requests. The SIS Employee user will have the ability to view active requests made by Department Administrators, and deny or approve each request.

The interfaces shall be formatted in a way such that all functionalities and views of the system are compatible with both Mozilla Firefox and Google Chrome.

**3.1.2 Hardware Interfaces**

This application can run on any hardware that is able to support the Internet browsers Mozilla Firefox and Google Chrome, as well as support user input from both a mouse and keyboard used to access either browser. The data saved during the application processes will not be saved to the local disk, but instead to a database that will hold data for all users involved. The user’s computer will use basic network protocols to access information stored in the database.

**3.1.3 Software Interfaces**

The following software is required for the system to work properly:

PHP 5.0+

Source: [www.php.net](http://www.php.net)

“PHP is a popular general-purpose scripting language that is especially suited to web development” (php.net). The PHP language and interpreter will be used to process the webpage, and files containing the language will be denoted by the “.php” file extension.

MySQL 5.5+

Source: [www.MySQL.com](http://www.MySQL.com)

MySQL is an open source Relational Database Management System that uses the Structured Query Language. All data store in the SIS Request System Application will be stored in a MySQL relational database.

CodeIgniter 3.0

Source: [www.CodeIgniter.com](http://www.CodeIgniter.com)

“Code Igniter is a powerful PHP framework with a very small footprint, built for developers who need a simple and elegant toolkit to create full-featured web applications” (CodeIgniter.com). The system uses CodeIgniter, which provides a MVC framework for web application development using PHP.

**3.1.4 Communication Interfaces**

All data that is accessed by the user shall be transferred over the network using the HTTP network protocol to ensure security and stability in the MySQL database. The data in the database will not be changed directly by the user, but instead will be transferred through the web application to be used in an effective and functional manner.